

Passenger Rail Performance: Sustaining Reliable Service

July 12, 2007

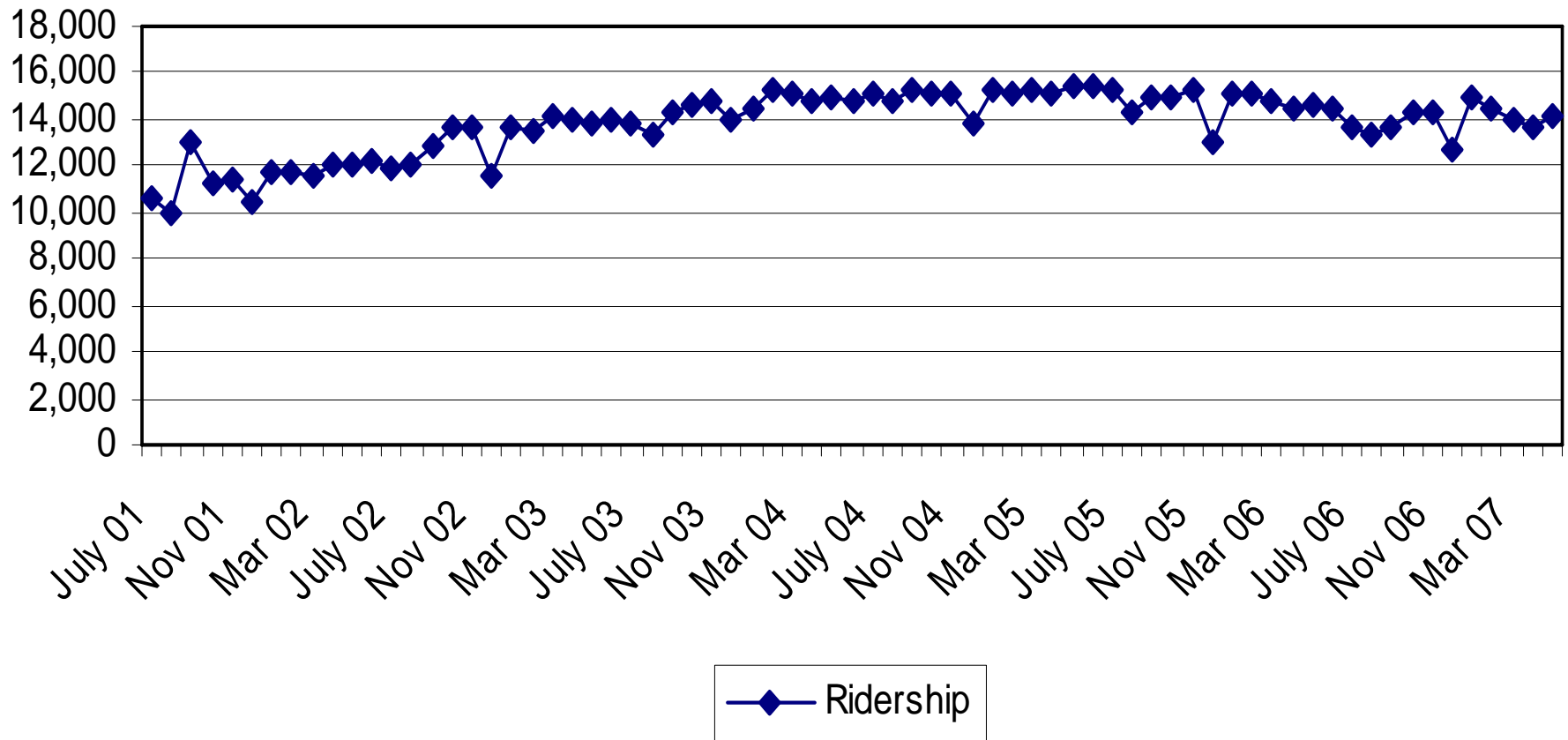
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DRPT

Sustaining Reliable Service

- ❑ First priority is effective and efficient operation of current service
- ❑ Capacity
 - Maintaining Existing Capacity
 - Building Additional Capacity
 - Operations
- ❑ Weather Conditions
 - Heat Restrictions
- ❑ Mechanical
 - Equipment Renewal or Replacement

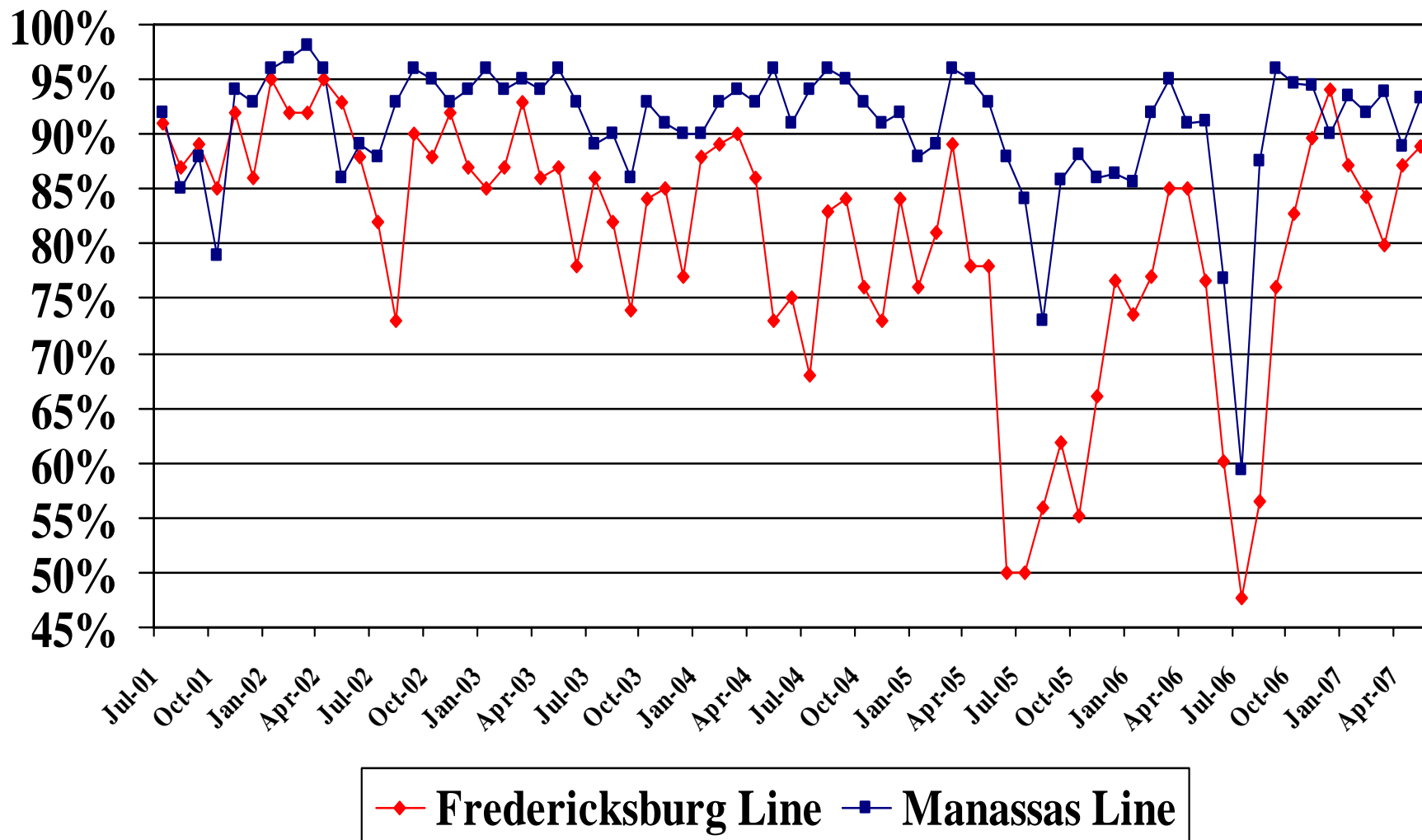
VRE Ridership

July 2001 – May 2007



VRE On-Time Performance

July 2001 – May 2007



Addressing the Causes of Delay

- ☐ CSX's Role
- ☐ Virginia's Role
- ☐ VRE's Role
- ☐ Amtrak's Role

CSX's Role: Maintaining Existing Capacity

- ❑ Recently completed a 3-year tie and surfacing program for the RF&P Subdivision
– Cost \$30M
- ❑ Continues to work to dispatch trains without conflicts while on system
- ❑ Continues to work cooperatively with DRPT on capacity modeling effort and in constructing MOU projects
- ❑ Needs to focus on sustained reliability of both passenger and freight operations

Virginia's Role: Building Additional Capacity

- ❑ Provided \$65M + \$20M for capacity improvements:
 - 6 MOU projects
 - Richmond Area Improvements
- ❑ Provided \$7.5M for Quantico Creek Bridge (\$26M project)
- ❑ Provided \$15M for VRE locomotives
- ❑ Working to understand on-time performance issues and causes of delay
- ❑ Needs to develop a statewide passenger rail strategy to support safe, efficient and reliable service

Virginia's Role: Capacity Modeling

❑ Acca Yard Study

- Model train movements and capacity from Baltimore, MD to Florence, SC.
 - Includes Virginia capacity improvements underway
 - Evaluates conflicts due to current and future train operations
 - Will evaluate changes in routing between Staples Mill Station and South Petersburg, and eastward to include Main Street Station/Fulton Yard. Also includes the evaluation of the Buckingham Branch Railroad as a passenger routing option from Main Street Station to Doswell
 - North Carolina is also conducting a follow on to this study to evaluate improvements in NC from Rocky Mount to South Collier/Petersburg

❑ Project Completion – Winter 2007 – Cost ~\$500,000

Virginia's Role: Understanding Effects of Weather Delays (1)

- ❑ 2007 Session of the General Assembly required DRPT and CSX to enter into an agreement that will provide for improved and reliable passenger and freight operations in the I-95 Rail Corridor prior to the release of any Rail Enhancement Funds for the I-95 Rail Corridor.
- ❑ This agreement must include provisions for managing heat restrictions, including strategies for maintaining or enhancing the reliability of passenger rail service during heat restrictions.

Virginia's Role: Understanding Effects of Weather Delays (2)

- ☐ DRPT and CSX are negotiating the Improved and Reliable Passenger and Freight Rail Operations Agreement for the I-95 Rail Corridor.
- ☐ This agreement will answer the following questions:
 - What are the causes of and need for heat restrictions?
 - What can be done to eliminate and/or better manage heat restrictions?
 - What is the overall framework/agreement of how to improve the reliability of passenger and freight rail operations for the corridor?
- ☐ Anticipated completion – Summer 2007

VRE's Role: Status of Mechanical Improvements

- ❑ Aging equipment and related failures degrade on-time performance year round
- ❑ VRE has implemented changes to its current maintenance practices to improve existing efficiency of mechanical operations
 - Maintenance operations have been established at Crossroads Yard to provide additional time for the maintenance of locomotives and cars

Virginia's/VRE's Role: Improving VRE Mechanical Reliability

- ❑ Cab Car 100 % Replacement – Complete
 - 11 cab cars were replaced
 - Total cost \$26.12M

- ❑ Bi-Level Coaches on order – 100% Replacement of all VRE cars
 - 50 coaches on order to be delivered at a rate of 5 coaches per month over a 10 month period beginning July 2007
 - Total cost \$92.5M, \$20M from DRPT

- ❑ Locomotives – 20 locomotives needed for 100% replacement at a total cost of \$78.86M, \$15M funded from DRPT

Amtrak Southeast Corridor Performance Plan

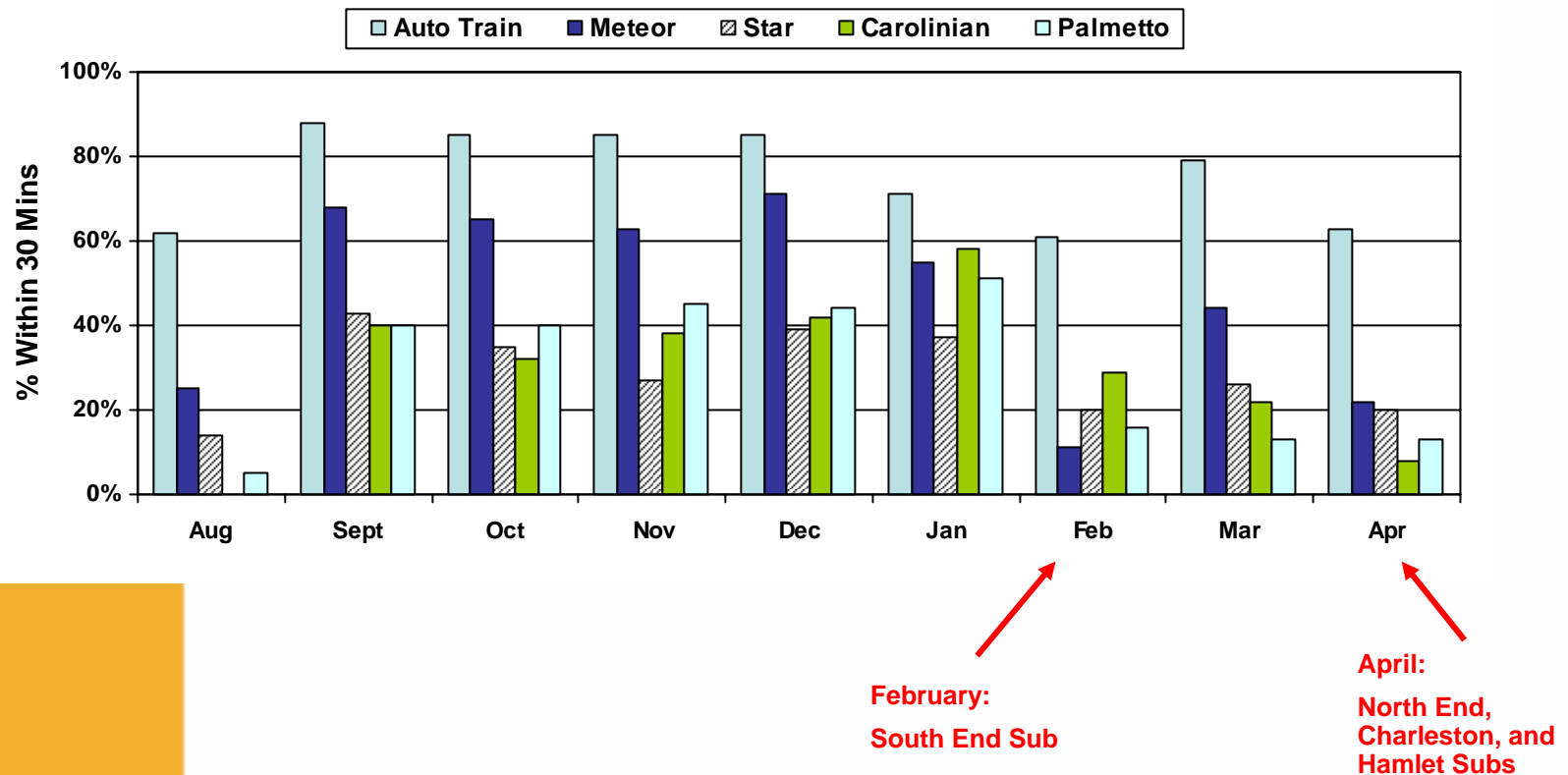
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Amtrak On-Time Performance Southeast Corridor August 2006 – April 2007

Endpoint On-Time Performance

August 2006 - April 2007



Note: Piedmont not shown because it does not operate on CSX and was not affected by CSX's spring trackwork.

Amtrak and CSX Work to Improve Service Reliability

- ❑ July 2006, CSX and Amtrak meet to begin work to improve on-time performance
- ❑ During August 2006 – April 2007:
 - All Amtrak routes' OTP improved vs same period prior year
 - Amtrak routes at or near 75% OTP
 - AutoTrain = 77% (calculated as if hour-longer schedule had been in place for entire period)
 - Piedmont = 73%
 - Routes showing significant improvement vs same period prior year
 - Silver Meteor = 48% (up from 21%)
 - Routes requiring significant work
 - Silver Star = 29%
 - Palmetto = 29%
 - Carolinian = 32%

Endpoint Arrivals by Lateness Threshold

<u>Auto Train</u>	<u>30 Min</u>	<u>90 Min</u>	<u>3 Hr</u>
Actual: August '05 - April '06	18%	49%	79%
Actual: August '06 - April '07*	77%	89%	97%
Goal	75%	85%	95%

<u>Piedmont</u>	<u>10 Min</u>	<u>30 Min</u>	<u>60 Min</u>
Actual: August '05 - April '06	59%	84%	95%
Actual: August '06 - April '07	73%	91%	96%
Goal	75%	90%	95%

<u>Silver Meteor</u>	<u>30 Min</u>	<u>90 Min</u>	<u>3 Hr</u>
Actual: August '05 - April '06	21%	46%	74%
Actual: August '06 - April '07	48%	73%	89%
Goal	75%	85%	95%

<u>Silver Star</u>	<u>30 Min</u>	<u>90 Min</u>	<u>3 Hr</u>
Actual: August '05 - April '06	12%	34%	63%
Actual: August '06 - April '07	29%	55%	82%
Goal	75%	85%	95%

<u>Palmetto</u>	<u>30 Min</u>	<u>90 Min</u>	<u>3 Hr</u>
Actual: August '05 - April '06	25%	59%	87%
Actual: August '06 - April '07	29%	62%	89%
Goal	75%	85%	95%

<u>Carolinian</u>	<u>30 Min</u>	<u>90 Min</u>	<u>3 Hr</u>
Actual: August '05 - April '06	20%	65%	90%
Actual: August '06 - April '07	32%	68%	95%
Goal	75%	85%	95%

*Auto Train performance assumes hour longer schedule for August '06-April '07.

Amtrak Train Delays Southeast Corridor

Delay Minutes by Route and Responsibility

Aug 2006 – Apr 2007

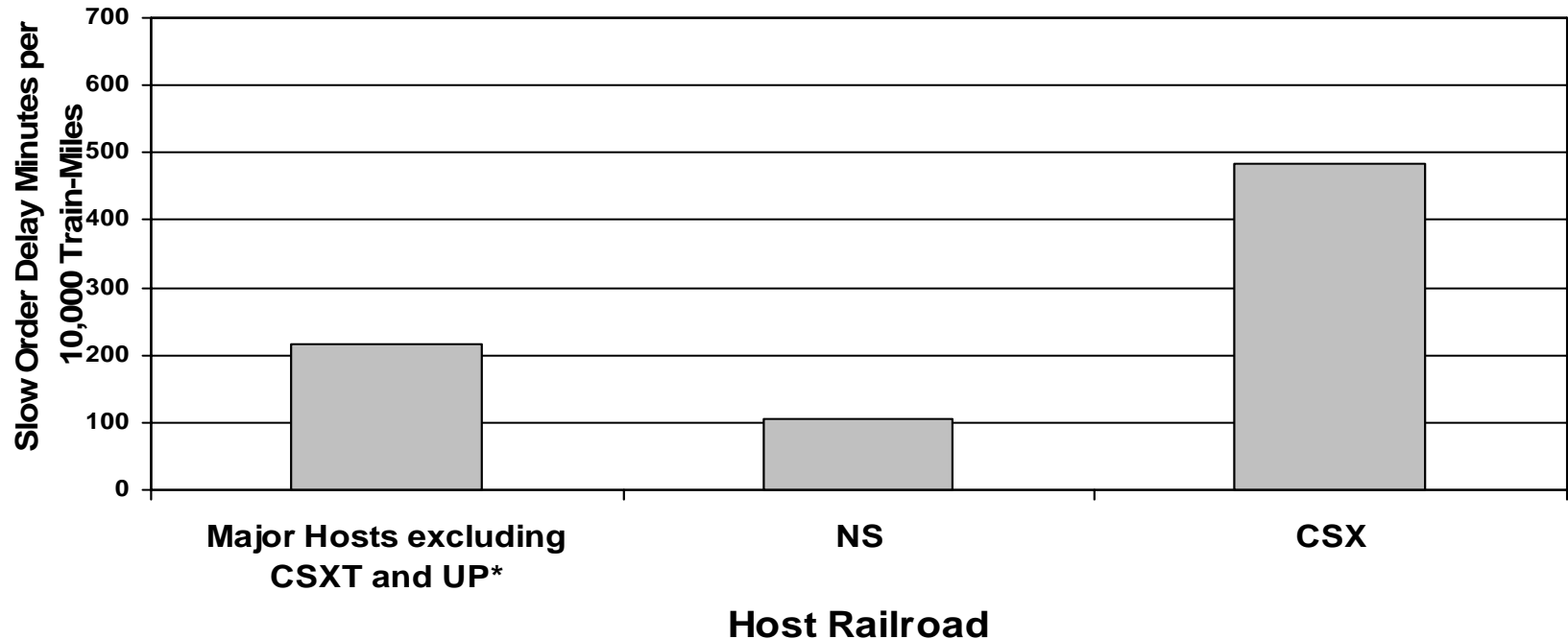
Service	Host-Responsible Delay Minutes as % of Delay Minutes While on CSXT* and NS						
	Dispatching-Related			Infrastructure-Related		Other Host- Resp	Total
	Frt Train Interference	Psg'r Train Interference	Routing/ Crossovers	Slow Orders	Signal Delays		
Auto Train	28%	11%	7%	28%	11%	3%	88%
Silver Meteor	27%	13%	4%	26%	10%	4%	83%
Silver Star	20%	13%	4%	23%	16%	4%	80%
Palmetto	29%	13%	8%	19%	12%	5%	87%
Carolinian	21%	13%	8%	14%	17%	5%	78%
Piedmont	30%	13%	1%	8%	15%	1%	69%
<i>SE Corr Avg</i>	25%	12%	6%	22%	13%	4%	82%

*Includes FDOT, which is maintained and dispatched by CSXT

Amtrak Comparison of Delays

Slow Orders on Southeast Corridor vs. National Average

Most recent 12 months: May 2006 - April 2007

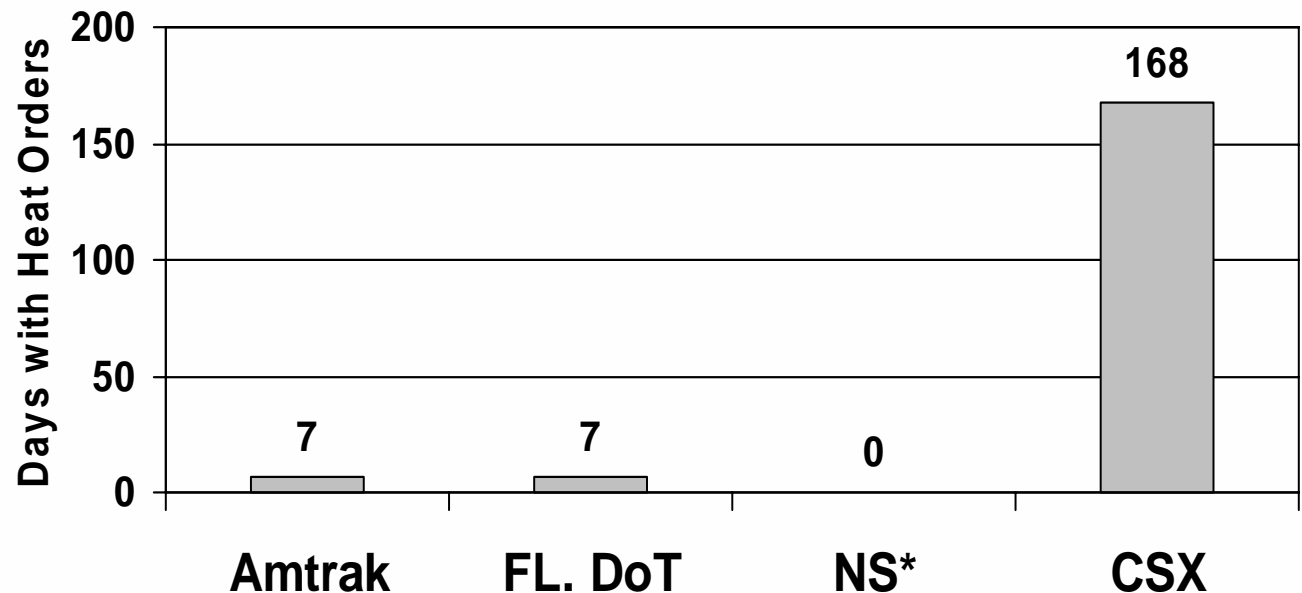


****Other Major Amtrak Hosts** include BNSF, CN, CPR, and NS; excludes UP, which signed an agreement with Amtrak in April, 2007 to reduce slow orders by up to 80% on selected major routes; also excludes Amtrak Northeast Corridor.*

Heat Restrictions: Amtrak System Comparison

Heat Order Days/Year on Amtrak Routes by Host

Most Recent 12 Months: May 2006 - April 2007



*Does not include NS-owned track between Raleigh and Cary, which is dispatched by CSX and therefore subject to CSX heat order restrictions

Amtrak's Role: Southeast Corridor Performance Improvements (1)

- ❑ As part of the Grant Agreement to fund Amtrak (Section 144), the Federal Railroad Administration requires that Amtrak provide a plan for operational and other changes to improve on-time performance in the Southeast Corridor from Washington, D.C. to Miami, Florida

Amtrak's Role

Southeast Corridor

Performance Improvements (2)

- ☐ As part of this plan, a goal is established to achieve 75% on-time performance for the Auto Train, Silver Service/Palmetto and Carolinian/Piedmont Trains
- ☐ The plan involves both CSX and NS
- ☐ Plan development included the formation of a cross discipline Amtrak team to establish the framework of the plan

Amtrak's Role Southeast Corridor Performance Improvements (3)

- ☐ Team objectives included:
 - Improving the reliability of train movements on CSX and NS
 - Adjusting Amtrak schedules
 - Adding capacity to CSX and NS
- ☐ Team activities included:
 - Surveying corridors and operations
 - Developing near term actions
 - Train slotting
 - Scheduling
 - Heat order practices
- ☐ DRPT reviewed a summary of the plan and submitted a letter of support to accompany Amtrak's submission to FRA
- ☐ This plan was due on July 1, 2007

Conclusion

- ☐ DRPT has included in the Acca Yard study the modeling of improvements necessary to establish 75% or greater on time performance in the corridor
- ☐ Capacity modeling will assist in identifying the necessary improvements to sustain a quality level of existing service and identify necessary improvements to allow for the addition of passenger trains
- ☐ DRPT will continue to work with VRE and Amtrak to further identify issues and improve service



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